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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,584	02/06/2004	Yoshiaki Kawai	2271/71527	6500

7590 07/10/2008  
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EXAMINER
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NGUYEN, MADELEINE ANH VINH

ART UNIT	PAPER NUMBER
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2625

MAIL DATE	DELIVERY MODE
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07/10/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/773,584	<b>Applicant(s)</b> KAWAI, YOSHIKI	
	<b>Examiner</b> Madeleine AV Nguyen	<b>Art Unit</b> 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 April 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) 9-16,25-32,36 and 37 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8,17-24 and 33-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This communications is a Supplemental Non-Final Office Action since the Non-Final Office Action mailed on May 16, 2008 has only the empty PTO forms and the Detailed Office Action is blank. Please discard it and consider this Office Action as a substitute. Sorry for the inconvenience.

#### ***Election/Restrictions***

1. Claims 9-16, 25-32, 36 and 37(group II) are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on April 15, 2008.
2. It is notes that group I has claims 1-8, **17-24** and 33-35 (claims 18-21 and 24 were missed in the last restriction requirement).

#### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:  
  
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claims 1-8, 17-24 and 33-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Concerning claim 1, how “a phase locked loop unit” in line 3 could generate a high-frequency clock? Is it a high frequency clock signal instead? Should “a reference clock” in line 4 be “a reference clock signal”? Clarification on how a generation unit that divides a frequency so as to generate pulses of a reference period, (pulses of) a long period longer than the reference period and (pulses of) a short period shorter than the reference period. How “the pixel clock” in line 16 is equivalent to “one of the pulses”? Definition or description of the pixel clock is needed. “outputting” is indefinite on what does the act of outputting. “one of the pulses in lines 17, 20-21, and 26 need clarifications on what kind of pulses (pulses of a reference period or other specific pulses). “pulses” in “distribution of the pulses” in lines 21-22 and 28-29 need to be defined. “which selectively designates” in lines 20 and 25 are indefinite on what designates (the first data generation unit or the first selection signal or the second data generation unit or the second selection signal).

Concerning claim 2, how “a phase locked loop unit” in line 3 could generate a high-frequency clock? Clarification on how a generation unit that divides a frequency so as to generate pulses of a reference period, (pulses of) a long period longer than the reference period and (pulses of) a short period shorter than the reference period. How “the pixel clock” in line 13 is equivalent to “one of the pulses”? Definition or description of the pixel clock is needed. “outputting” in line 13 is indefinite on what does the act of outputting. “pulses” in “distribution of the pulses” in lines 21-22 and 28-29 need to be defined. “one of the pulses” in lines 14, 17-18, and 22-23 need clarification on what kind of pulses (pulses of a reference period or other specific pulses). “which selectively designates” in lines 17 and 22 are indefinite on what

designates (the first data generation unit or the first selection signal or the second data generation unit or the second selection signal).

Claim 6 is indefinite for the same reasons discussed in claim 1 or 2 above.

Concerning claim 17, “a high-frequency clock” in line 4 should be -- a high-frequency clock signal—or otherwise since how “a high-frequency clock generating means” in line 3 could generate a high-frequency clock? Should “a reference clock” in lines 4-5 be “a reference clock signal”? Definition or description of “reference clock” and “synchronization detection signal” (lines 4-5) are required. Clarification on how a “pixel clock generating means” in line 12 divides a frequency so as to generate pulses of a reference period, (pulses of) a long period longer than the reference period and (pulses of) a short period shorter than the reference period. “Pulses of” should be added before “a long period longer than ...” in lines 14-15 and before “a short period shorter than ...” in lines 15-16. How “the pixel clock” in line 16 is equivalent to “one of the pulses”? Definition or description of the pixel clock is needed. “outputting” in line 16, is indefinite on what does the act of outputting (pixel clock generating means or anything else) and how something outputs one of the pulses as the pixel clock. “one of the pulses” in lines 17, 20-21, and 25-26 need clarification on what kind of pulses (pulses of the reference period or pulses of the long period or pulses of the short period or all of them or other specific pulses). “the pulses” in “distribution of the pulses” in line 22 and 27 need to be defined and clarified. Are “the pixel clock” in line 16, “said pixel clock” in lines 21 and 26 the same?

Claim 18 is indefinite for the same reasons discussed in claim 17 above.

Claim 21 is indefinite for the same reasons discussed in claim 17 above. In addition, “the data designating the pulses” in lines 27-28 needs to be defined or described. How values of

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different pulses (pulses of the reference period, pulses of the long period and pulses of the short period) in lines 27-31, are set to numerical values a, b and c? “sets to the value b” in line 35 should be – sets the output selection data to the value b--. The same with “sets to the value a” in line 42. “carries over a remainder b to a following pixel” in lines 39-40 and lines 46-47 are indefinite on what “carries over” and how said synthesizing means carries over a remainder to a following pixel. “a following pixel” in lines 40 and 47 should be defined and described.

Claims 33-35 are indefinite for the same reasons discussed in claims 1, 17 and 21 above.

5. Claim 1 recites the limitation "the high-frequency clock signal" in lines 12-13, “the pixel clock” in line 21, and “said pixel clock” in lines 21 and 26. There are insufficient antecedent bases for these limitations in the claim.

6. Claim 2 recites the limitations "the high-frequency clock signal" in line 6, “the pixel clock” in line 13, and “said pixel clock” in lines 18 and 23. There are insufficient antecedent bases for these limitations in the claim.

7. Concerning claim 6, in addition to the insufficient antecedent bases for the limitations discussed in claims 1 or 2 above, the limitations “the data designating the pluses (pulses)” in lines 28-29.

8. Claim 17 recites the limitations "the pixel clock" in line 16, “one of the pulses” in line 17, and “said pixel clock” in lines 21 and 26. There are insufficient antecedent bases for these limitations in the claim.

9. Claims 18 recites the limitations that are insufficient antecedent bases as discuss in claim 17 above.

10. Concerning claim 22, in addition to the insufficient antecedent bases for the limitations discussed in claim 17 above, the limitations “the data designating the pluses (pulses)” in lines 27-28.

Claims 3-5, 7-8, 19-20 and 23-24 are dependent claims of rejected claims 2, 6, 18 and 22. Thus, claims 3-5, 7-8, 19-20 and 23-24 are rejected for the same rationales set forth for claims 2, 6, 18 and 22.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Madeleine AV Nguyen whose telephone number is 571 272-7466. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Madeleine AV Nguyen/

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July 10, 2008